

WHAT IS CLAIMED IS:

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1. A method for analyzing a data network having a plurality of routers comprising:
- accessing at least one of static routing information and route summarization information;
- 5 determining an identity of a network prefix using the accessed information; and
- analyzing the data network using the determined identity.
2. The method of claim 1 wherein the accessing includes:
- accessing at least one of a static routing table and an open shortest path first route summarization table.
3. The method of claim 1 wherein the determining includes:
- determining router information, interface information, and association information for the network prefix.
4. The method of claim 1 wherein the analyzing includes:
- analyzing traffic of the data network.
5. The method of claim 1 wherein the analyzing includes:
- modeling the data network.
6. The method of claim 1 wherein the determining includes:
- determining an identity of an exit or entry router in the data network.
7. A system for analyzing a data network having a plurality of routers, said system comprising:

means for accessing at least one of static routing information and route summarization information;

5 means for determining an identity of a network prefix using the accessed information; and

means for analyzing the data network using the determined identity.

8. A system for analyzing a data network, said system comprising:  
a memory configured to store information representing static routing information and route summarization information; and

a processor configured to:

5 access at least one of the static routing information and the route summarization information;

determine an identity of a network prefix using the accessed information; and

analyze the data network using the determined identity.

9. The system of claim 8 wherein, when accessing, the processor is configured to:

access at least one of a static routing table and an open shortest path first route summarization table.

10. The system of claim 8 wherein, when determining, the processor is configured to:

determine router information, interface information, and association information for the network prefix.

11. The system of claim 8 wherein, when analyzing, the processor is configured to:

analyze traffic of the data network using the determined identity.

12. The system of claim 8 wherein, when analyzing, the processor is configured to:
- model the data network using the determined identity.
13. The system of claim 8 wherein, when determining, the processor is configured to:
- determine an identity of an exit or entry router in the data network.
14. A computer-readable medium containing instructions for controlling at least one processor to perform a method that analyzes a data network having a plurality of routers, the method comprising:
- accessing at least one of static routing information and route summarization information from a router;
- determining an identity of a network prefix using the accessed information; and
- analyzing the data network using the determined identity.
15. The computer-readable medium of claim 14 wherein the accessing includes:
- accessing at least one of a static routing table and an open shortest path first route summarization table.
16. The computer-readable medium of claim 14 wherein the determining includes:
- determining router information, interface information, and association information for the network prefix.
17. The computer-readable medium of claim 14 wherein the analyzing includes:
- analyzing traffic of the data network.

18. The computer-readable medium of claim 14 wherein the analyzing includes:

modeling the data network.

19. The computer-readable medium of claim 14 wherein the determining includes:

determining an identity of an exit or entry router in the data network.

20. A method for determining an identity of a network device, the network device being associated with a network prefix, the method comprising:

accessing one or more of a border gateway protocol peering table, a static route table, an open shortest path first route summarization table, and a network topology table;

determining whether one of the accessed tables contains the network prefix; and

determining an identity of the network device when a table is determined to contain the network prefix.

21. The method of claim 20 wherein the determining an identity includes: determining router information, interface information, and association information.

22. A system for determining an identity of a network device, the network device being associated with a network prefix, the system comprising:

a memory configured to store one or more of a border gateway protocol peering table, a static route table, an open shortest path first route summarization

table, and a network topology table; and

a processor configured to:

access, from the memory, one or more of the border gateway

protocol peering table, the static route table, the open shortest path first route summarization table, and the network topology table;

10 determine whether one of the accessed tables contains the network prefix; and

determine an identity of the network device when a table is determined to contain the network prefix.

23. The system of claim 22 wherein, when determining an identity, the processor is configured to:

determine router information, interface information, and association information.

24. A computer-readable medium containing instructions for controlling at least one processor to perform a method that determines an identity of a network device, the network device being associated with a network prefix, the method comprising:

5 accessing, from a router, one or more of a border gateway protocol peering table, a static route table, an open shortest path first route summarization table, and a network topology table;

determining whether one of the accessed tables contains the network prefix; and

10 determining an identity of the network device when a table is determined to contain the network prefix.

25. The computer-readable medium of claim 24 wherein the determining an identity includes:

determining router information, interface information, and association information.